

## ABSTRACT OF THE DISCLOSURE

An integrated PBX and SIP telephony communications network supporting transmission of private signaling codes over SIP. A telephone emits a private signaling code for accessing a particular PBX function. An enhanced IP translator coupled to the telephone encapsulates the private signaling code within a SIP invite, request, response, information, notification message, and/or instant message. The SIP message with the encapsulated private signaling codes is transmitted over a communications network to a PBX. The PBX is also coupled to an enhanced IP translator that receives the SIP message and decapsulates the embedded private signaling codes. The codes are transmitted to the PBX for rendering a function for the telephone. A SIP user agent aware of the private signaling codes may also access functions provided by the PBX by encapsulating/decapsulating private signaling codes into/from SIP messages.

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